

(19)



Canadian  
Intellectual Property  
Office

An Agency of  
Industry Canada

Office de la Propriété  
Intellectuelle  
du Canada

Un organisme  
d'Industrie Canada

(11) **CA 2 376 903**(13) **A1**

(40) 04.01.2001

(43) 04.01.2001

(12)

(21) 2 376 903

(51) Int. Cl. 7: **A61N 1/05**

(22) 23.06.2000

(85) 21.12.2001

(86) PCT/US00/17222

(87) WO01/00273

(30) 60/141,202 US 25.06.1999

(72) PUSKAS, JOHN D. (US).

(71) EMORY UNIVERSITY,  
1380 S. Oxford Road, ATLANTA, XX (US).

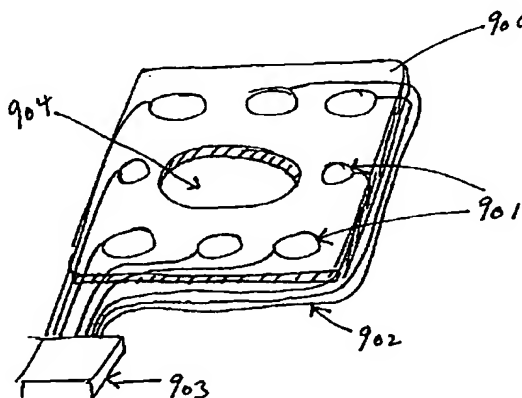
(74) FINLAYSON & SINGLEHURST

(54) DISPOSITIFS ET METHODES DE STIMULATION DU NERF VAGUE

(54) DEVICES AND METHODS FOR VAGUS NERVE STIMULATION

(57)

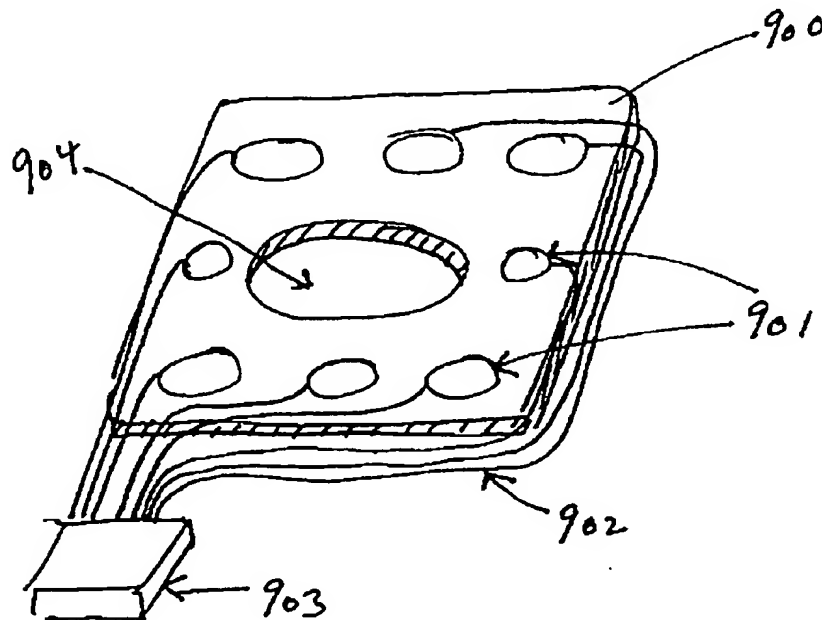
The present invention relates to apparatus and methods for electrically inducing, pharmacologically maintaining cardiac asystole. The present invention also provides cutaneous array electrodes (900) that may be used non-invasive to stimulate the vagus nerve.



(86) Date de dépôt PCT/PCT Filing Date: 2000/06/23  
(87) Date publication PCT/PCT Publication Date: 2001/01/04  
(85) Entrée phase nationale/National Entry: 2001/12/21  
(86) N° demande PCT/PCT Application No.: US 2000/017222  
(87) N° publication PCT/PCT Publication No.: 2001/000273  
(30) Priorité/Priority: 1999/06/25 (60/141,202) US

(51) Cl.Int.<sup>7</sup>/Int.Cl.<sup>7</sup> A61N 1/05  
(71) Demandeur/Applicant:  
EMORY UNIVERSITY, US  
(72) Inventeur/Inventor:  
PUSKAS, JOHN D., US  
(74) Agent: FINLAYSON & SINGLEHURST

(54) Titre : DISPOSITIFS ET METHODES DE STIMULATION DU NERF VAGUE  
(54) Title: DEVICES AND METHODS FOR VAGUS NERVE STIMULATION



(57) Abrégé/Abstract

The present invention relates to apparatus and methods for electrically inducing, pharmacologically maintaining cardiac asystole. The present invention also provides cutaneous array electrodes (900) that may be used non-invasive to stimulate the vagus nerve.